Archiving Activities at Institute of Planetary Exploration / German Aerospace Center (DLR)

Thomas Roatsch

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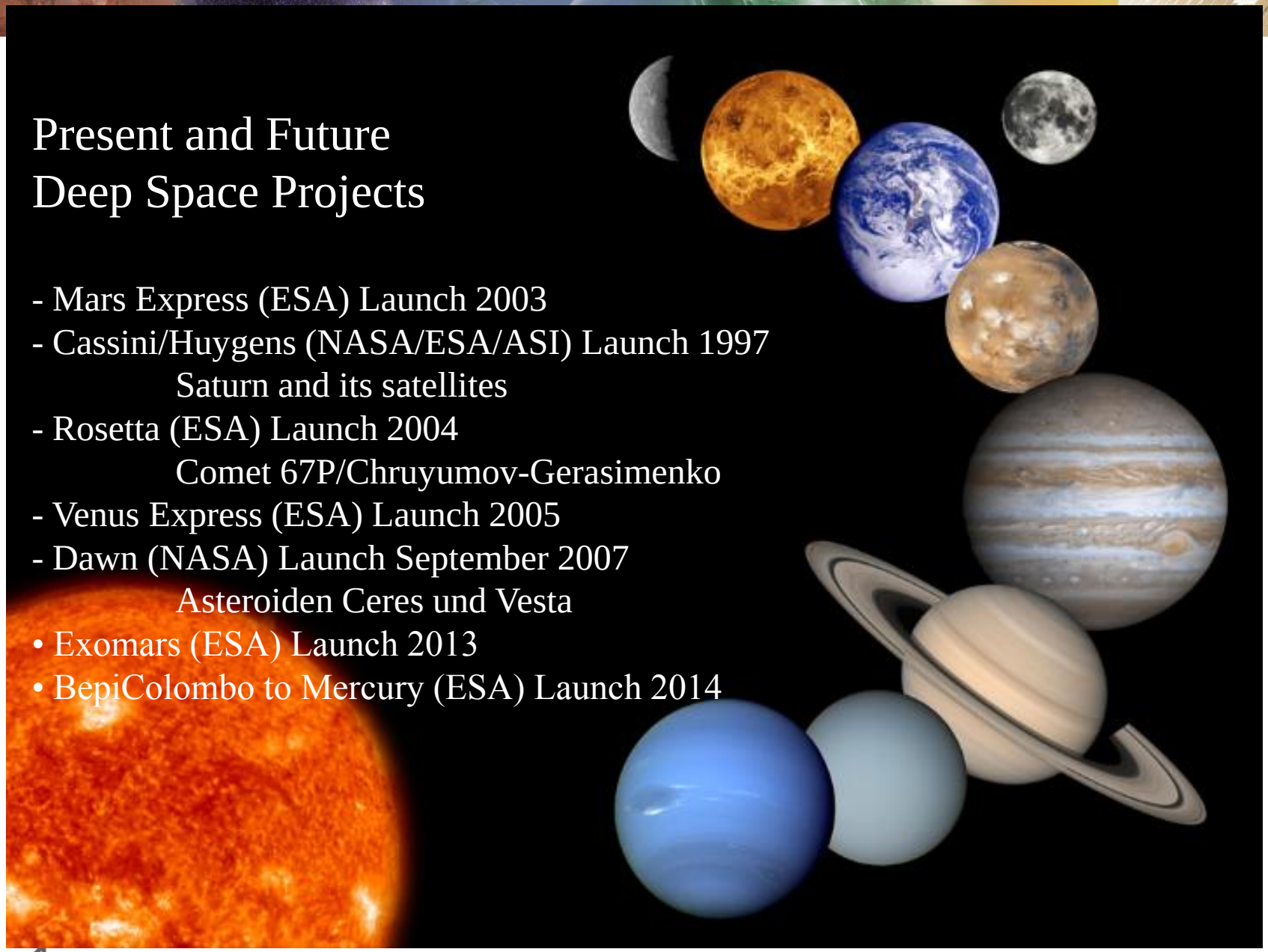
Deutsches Zentrum
für Luft- und Raumfahrt e.V.
in der Helmholtz-Gemeinschaft

Present and Future
Deep Space Projects

- Mars Express (ESA) Launch 2003
- Cassini/Huygens (NASA/ESA/ASI) Launch 1997
  Saturn and its satellites
- Rosetta (ESA) Launch 2004
  Comet 67P/Chruyumov-Gerasimenko
- Venus Express (ESA) Launch 2005
- Dawn (NASA) Launch September 2007
  Asteroiden Ceres und Vesta
- Exomars (ESA) Launch 2013
- BepiColombo to Mercury (ESA) Launch 2014



Archiving Activities

Mars Express: High Resolution Stereo Camera (HRSC)

- delivered to PSA radiometrically calibrated data
- delivered to PSA map projected data
- data from 4 years in orbit are already delivered
- all data released at PSA (also at PDS)

- delivery of Digital Terrain Models
- delivery of data from orbits < 2000

- delivered new version of all data after improved radiometric calibration

Archiving Activities

Venus Express: Venus Monitoring Camera (VMC)

- delivered to PSA radiometrically calibrated data in January 2007
- data from 6 months in orbit are delivered

- PSA review started this spring
- update of documentation still necessary

Archiving Activities

Cassini: Imaging Science Subsystem (ISS)

(together with CICLOPS, Boulder)

- delivered to PDS global mosaics and cartographic maps of Icy Satellites
- data from Phoebe, Enceladus, Dione and Tethys delivered
- data from Iapetus and Mimas in preparation

Archiving Activities

DAWN; Framing Camera (FC)

- participate in the archive working group
- will deliver digital terrain models and maps

Europlanet

Integrated and Distributed Information Service (IDIS)

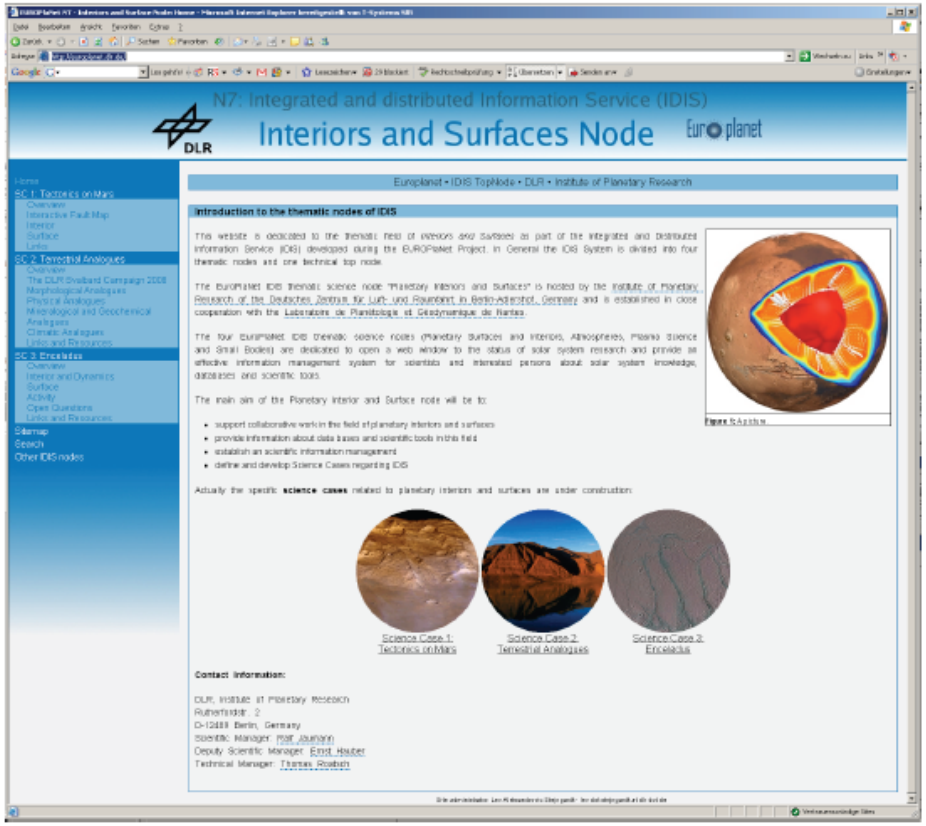
Node for Planetary Surfaces and Interior

3 Science Cases implemented

http://europlanet.dlr.de

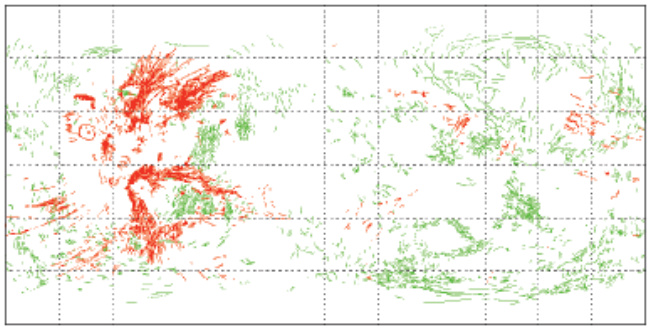
Scientific Manager: Ralf Jaumann
Technical Manager: Thomas Roatsch

http://europlanet.dlr.de



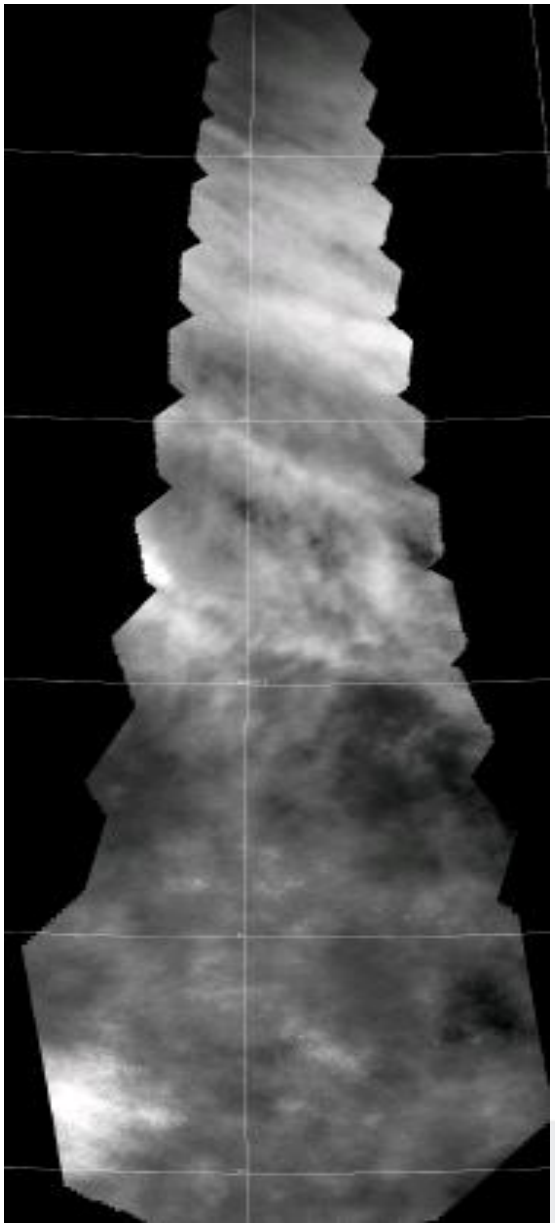
Online Resources

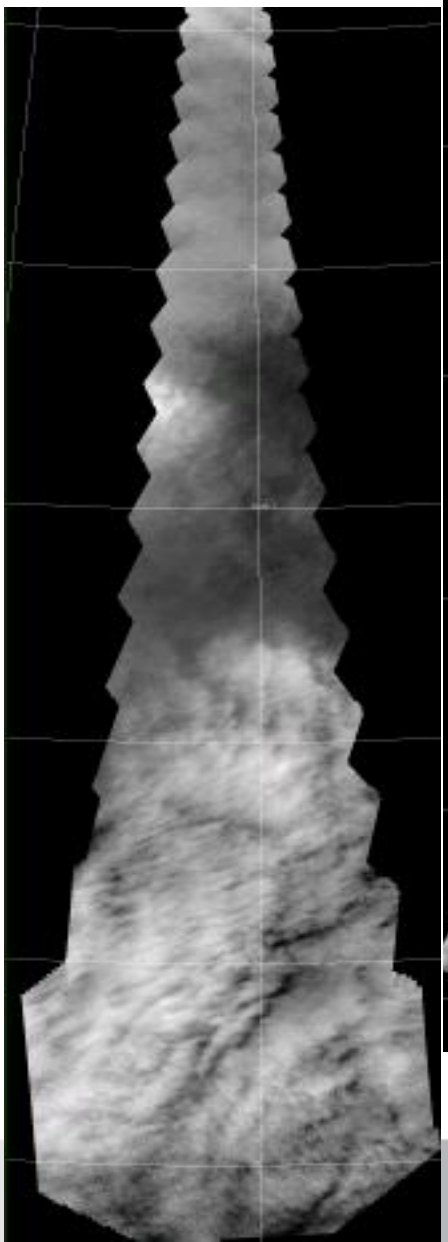
- General Information
  - Earth tectonic analogues
  - Structural geology sites
  - Mantle convection sites
- Data
  - Fault map (DLR)
  - Mars Information Sites
  - Lab data (rock rheology, melting curves, the Fe-FeS system)
  - Available software (mantle convection codes, …)
- Bibliography
  - ADS, ISI (Science Citation Index), Online Books, Special Journal Issues, Monographies

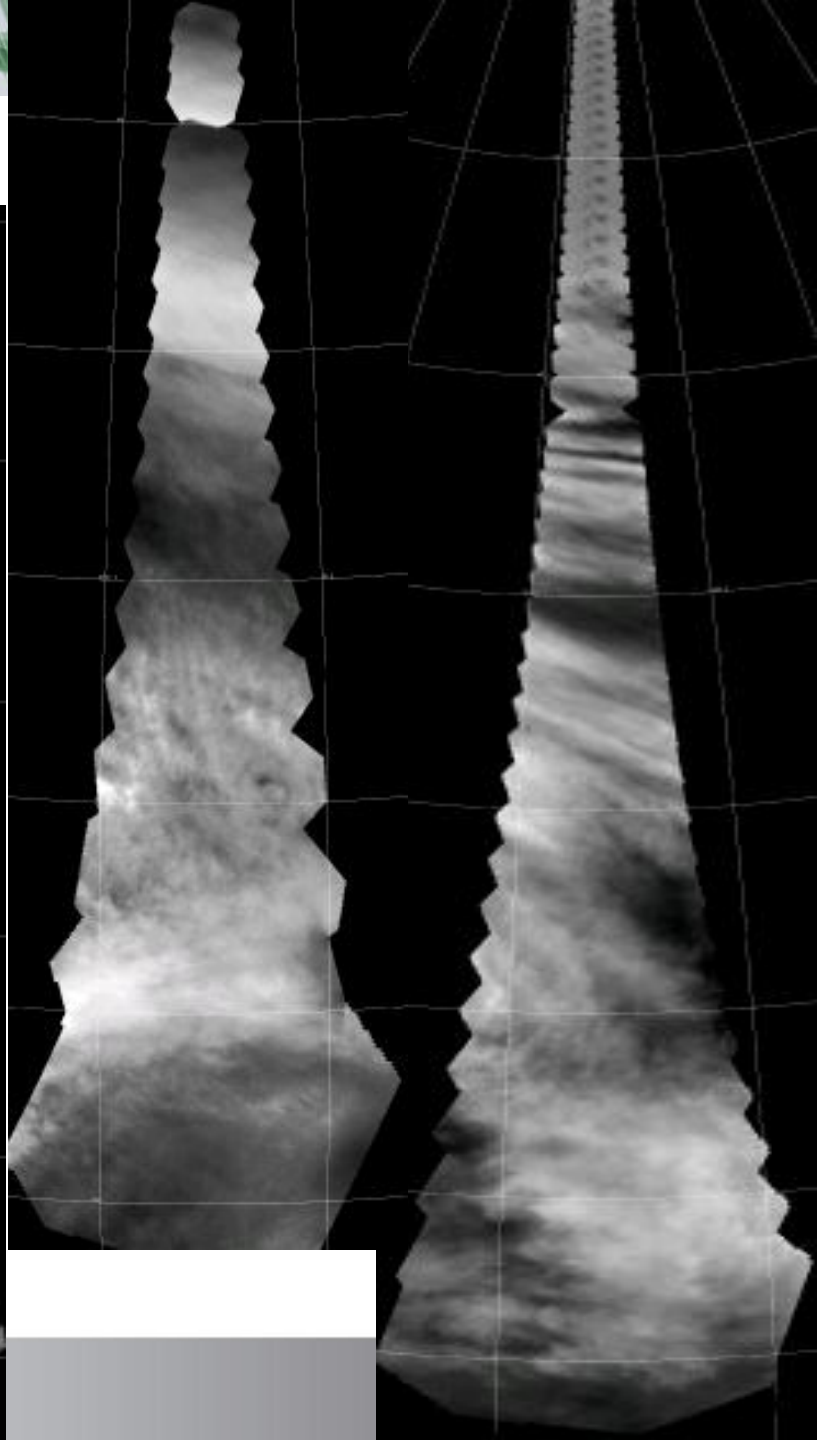
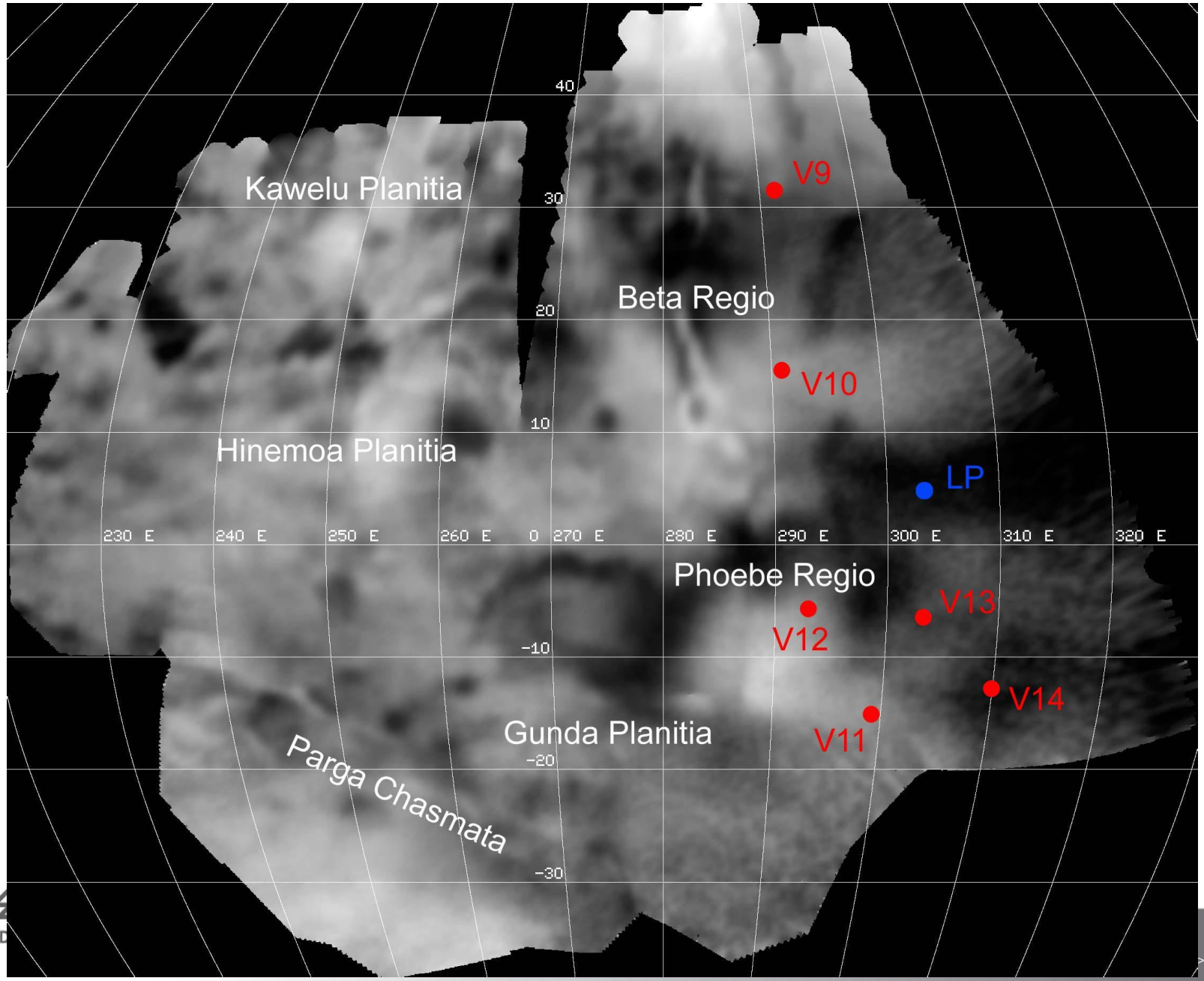


(Global Fault Map, DLR)

UV mosaics - 117 so far







VMC surface mosaic from eclipse seasons 4-6